BROWSER AND NETWORK OPTIMIZATION SYSTEMS AND METHODS

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Cross-Reference to Related Applications

The present application is related to U.S. Patent Application (CPA) No. 08/852,557, entitled "Remote Digital Image Viewing System and Method", filed May 7, 1997 (CPA filed October 26, 1999); U. S. Provisional Patent Application No. 60/177,329, entitled "Wireless Network System and Method", filed January 21, 2000; U.S. Provisional Patent Application No. 60/180,649, entitled "Digital Image Transfer System and Method", filed February 7, 2000; and U.S. Provisional Patent Application No. 60/220,730, entitled "Wireless Network System and Method", filed July 26, 2000, each of the same inventor hereof, and those respective applications are incorporated herein. The present application is also related to U. S. Provisional Patent Application No. 60/241,096, entitled "Wireless ASP Systems and Methods," filed October 16, 2000, U. S. Provisional Patent Application No. 60/241,095, entitled "E-Mail and Messaging Systems and Methods," filed October 16, 2000, U. S. Provisional Patent Application No. 60/241,086, entitled "Wireless Communications Invisible Proxy and Hooking Systems and Methods," filed October 16, 2000, and U.S. Provisional Patent Application No. 60/241,087 , entitled "Wireless Communications Protocols and Architectures Systems and Methods," filed October 16, 2000.

Background of the Invention

The present invention generally relates to data communications systems and methods and, more particularly, relates to systems and methods for wireless packetized

data communications with optimized sending and receiving according to data types and content, such as in a Web page or other multi-data type files and information.

Conventional packetized data communications over wireless networks typically have conformed to the same protocols and formats as employed over wired networks. The dynamics and conditions of wireless channels, however, differ quite significantly from those of wired environments. Moreover, bandwidths and communications speeds in wireless networks are typically less efficient and slower than in wired systems.

It would be a significant improvement in the art and technology to provide systems and methods for optimizing packetized data communications according to data types and priority choices among various information, for example, with a Web page or other data files or information over the Internet, particularly in wireless networks and communications.

Summary of the Invention

An embodiment of the invention is communications network for communicating an information comprised of at least one data type. The network includes a parser for parsing the information into distinct ones of each of the at least one data type and queue for storing each distinct one of the at least one data type.

Another embodiment of the invention is a method of prioritizing information communications according to data types of the information. The method includes receiving the information and parsing the information to separate and segregate data types. In other aspects, the method also includes saving the separate data types in respective queues and sending the information in a prioritized sequence via the respective queues.